ARKLOW HARBOUR.

REPORT

HIS EXCELLENCY THE LORD LIEUTENANT OF IRELAND

BU THE

COMMISSIONERS OF PUBLIC WORKS IN IRELAND,

UPON THE

SPECIAL REPORT MADE UPON ARKLOW HARBOUR TO HIS EXCELLENCY

BY MESSRS. STEVENSON AND STONEY.

Bresenied to both Rouses of Barliament by Command of Hier Majesto.



DUBLIN:

PRINTED BY ALEX. THOM & CO. (LIMITED), 87, 88, & 89, ABBEY-STREET,
THE QUEEN'S PRINTING OFFICE.

To be purchased either directly or through any Bookeniker, from any of the following Agents, vin.

Manzer, Marsen, 18, Great Quosa-street, W.O., and 32, Attingdon-treet, Westminster,
Manzer, Erns and Storrenzesone, East Harding-street, Flust-street, and Shic Olites, House of Lordes,
Moser, Anna and Onance Harding Agents, of Entheory,
Moser, Annastrue Reson and Oct (Limitely, of Reser, Horoza, Friends, and Oo, of Dubbia,

[C.-4710.] Price 1d.

470 (F) (1180)

Section 1

THE UNDER SECRETARY FOR IRELAND TO THE COMMISSIONERS OF PUBLIC WORSE IN IRELAND.

148 DUBLIC CASTLE,
19th January 1886.

Siz. I am directed by the Lord Lieutenant to transmit to you, to be laid before the Board of Works, the enclosed copy of the Report made to His Excellency by Mesers. Sixtension, and Sixtension, and Sixtension, and Sixtension, and Sixtension, and Sixtension, the engineers specially out to examine and report upon the Arklow Harbour, in fulfillingset of a promise given by the Government in the House of Commons, and I am to request they you will move the Board to favour His Excellenge.

with their observations upon the Report.

His Recellency would, at the same time, wish to be furnished with an estimate of the
His Recellency would, at the armount of the Report, and he would like to
those whether the Parliamentary Vote is sufficient for the purpose, assuming that to
know whether the Parliamentary Vote is sufficient for the purpose, assuming that
recommendation for postponing the construction of the Pier at the north ude of the

river, to which the Local Authorities are opposed, even adopted.

I am, &c.,

The Beneviary,

Sound of Works, Dublin.

THE COMMISSIONERS OF PUBLIC WORKS IN IRELAND TO THE UNDER SECRETARY FOR IRELAND.

OFFICE OF PUBLIC WORKS,

Dublin, 13th March, 1886.

Sia,

In reply to your letter of the *19th January last, I am directed to forward (*1997/86.)

herewith a copy of the Board's Engineer's Report of the 8th last, showing the cost

necessite a copy of the forms a spiritude that Albore Harlourz, according to the recommissions of Masses Stevenson and Steven, in their Report of the 8th January, 1616, and to chierre that while complient the result as above in yellow contracted results, the Bard are estimated for the work of contracted or the contraction of the Stevenson of the Wilder of the work of contraction of 2,0,000 and for exception of the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company) from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company from £50,000 as provided for yellow the Wilders Copper Miss. Company fred for yellow the Wilders Copper Miss. Company from £50,000 as pr

As in the first case an additional sum of £10,000, and the second £5,000, would have to be provided for, the excess, about the Lorat's Commissioners of Her Majavity Transsury see fit to assection one or other of the schemes, would have to be provided for aslaid down in section 5 of the Act, vir., by convening a special meeting of the Town Commissioners to declare their opinions as to the explestency of charging the rates of the

town sult. the experiment of not further ham to be advanced by this bound. In dealing assembly with the subject of completing the abstract, the Bound think is only due to themselves at this tage up not the method ringgreated by Maren. Stevenous and Stomey of ballinging up sold with loop functions that has taken for the neight of the work [17] however, as signified, the send constraints that they for it has been been also as the subject to the subject of the work [17] however, as signified, the subject of the work is sufficiently validated by the subject of the work is sufficiently validated by see unable to see why any valency of the character bounds be required at the look

of the pier.

Without in the least impugning the high professional anthority of the eminent Engineers who have repeted on the work, the Board consider it right to state-their preferences for the section as designed by their Highner, and whith, if fearing dust, would only calaid an excess of £2,000; or egain, should the northern groin he rejected, would enable a swing of about £1,000 in all to be effected.

As regards this latter feature of the design, the Board are quite satisfied that its omission will leave the harhour greatly exposed, and will with time prove to be a grave error.

There &c.

ror. I have, &α, (Signed), W. B. SOADY, Socretary.

The Under Secretary, &α, &α, ω,

Dublin Castle.

REPORT OF THE ENGINEER TO THE COMMISSIONERS OF PUBLIC WORKS IN IRELAND

Arkless Harbour

OFFICE OF PUBLIC WORKS. Dublin, 8th March, 1886

On the 26th January last the Board referred to me a letter from the Under Secretary to His Excellency the Lord Licutemant, forwarding a Report from Mosers. Stevenson and Stoney, the Engineers specially sent to examine and report on Arklow Harbour, and with a request that the Board should favour His Excellency with their observations thereon.

I prepared and forwarded to Mr. MacDonald (the Contractor) plans and description of the works proposed, and having obtained an estimate from him, I now heg to school

the following Report :-

the following scopes:—
The total scopeth measured along the parapet of the sea wall of the Southern Fier is 700 fiels, and along the whart wall 375 feet. During the year, 1885, the work was completed to within 120 feet of the First Head, the dazage refered to it may Report of the 15th April, 1885 (printed by order of the House of Commond), was mode good. a large quantity of heavy concrete blocks and rubble was deposited at the base of the sen wall These measures were approved on inspection by the Consulting Engineers, who

recommended that they should be carried out, and, where necessary, extended. Although they do not give any distinct assurance that no further damage will take place, they trust that with the precautions suggested in their Report no serious injury

will occur

With the exception of this protection to the base of the walls, they do not suggest any improvement on the original design until within 60 feet of the Pier Head, borond which, and for another length of 60 feet next it on the landward side, no works have as yet been executed. For this outer half of the work to be done, they recommend that the pier shall be constructed of one solid mass of concrete, founded at a depth of between 21 and 22 feet below low water. In the course of the investigation special borings were made at their request in order to ascertain at what depth a firm clay foundation existed, and it was ascertained to be from 37 to 38 feet below low water, a depth at which they do not recommend the pier to be founded, in consequence of the very large expenditure it would involve.

Mr. MacDonald, the Contractor, in submitting his estimate, does not undertake any responsibility in carrying out these additional works and stipulates that the quantities

are to be ascertained as the work is put in. It remains for me to report the cost of the completion of the works. The total sum provided (exclusive of the purchase of the rights of the Wicklow Copper Mine Company) was £30,000. To complete the entire works with the alterations and additions

recommended by Massra Stevenson and Stoney will cost £39,500. If it be decided not to construct the Northern Groin the expenditure will be reduced to £34,500. To complete the entire works according to original design, and with such protection as was anticipated to be necessary, when I reported in April, 1885, will cost £31,500

which may be called £38,000, so as to provide for any unseen contingency. To complete same with the exception of the North Groin will cost £29,000.

It will be observed that the saving to be effected by ahandoning the construction of the Northern Groin, is estimated at £5,000 in the case of the revised design, and only af £3,000 in the original one. The explanation is, all the blocks are made for the Groin and paid for, and a larger quantity of them will be used in the revised work (to substitution of heavy rubble) than in the completion of the original works.

> (Signed). ROBT, MANNING.

Dunier: Printed by Anice, Toron & Co. (Leaded), 47, 59, & 83, Abberteret. The Quest's I plantage Office For Her Mejerty's Scalesory Office.